

AMENDMENTS TO THE CLAIMS:

Kindly replace the previous claim set with the claim set which appears below, in which Claim 1 has been amended and new Claims 38 and 39 have been added to read as follows:

1. (currently amended) A mold release agent for use with composite surfaces comprising a functional siloxane, a crosslinker, a thickening agent, a base, and water, said functional siloxane being dispersed in water.

2. (original) A mold release agent according to claim 1, said functional siloxane being a silanol-functional siloxane.

Claims 3-4. (canceled)

5. (original) A mold release agent according to claim 1 said crosslinker being a tri-alkoxy functional silane.

6. (original) A mold release agent according to claim 5 said tri-alkoxy functional silane having the general formula $X-SiABC$ where X is selected from the group consisting of methyl, vinyl, acetoxy, hydride and ethyl groups, and A, B and C are each individually an alkoxy group.

Claim 7. (canceled)

8. (original) A mold release agent according to claim 1, said functional siloxane having at least one functional group selected from the group consisting of silanol-, vinyl-, alkoxy-, hydride-, amino-, and carboxy-functional groups.

9. (original) A mold release agent according to claim 1, said mold release agent having less than 5 grams VOCs per liter of said mold release agent.

10. (original) A mold release agent according to claim 1, having no flash point.

11. (original) A mold release agent according to claim 1, being effective to facilitate at least 3 effective releases of molded composite parts from a mold surface with substantially no detrimental transfer of mold release agent to said molded composite parts.

12. (original) A mold release agent according to claim 1, further comprising at least one component selected from the group consisting of wetting agents and surfactants.

13. (original) A mold release agent according to claim 1, further comprising a slip agent.

14. (original) A mold release agent according to claim 1, further comprising a dye.

15. (original) A mold release agent according to claim 1, further comprising a transfer control agent.

16. (original) A mold release agent according to claim 1, effective to provide substantially uniform wetting of a mold surface when applied thereto via spraying or wiping.

17. (original) A mold release agent according to claim 1, said mold release agent being effective, after curing for less than 5 hours at room temperature following application to a mold surface, to facilitate effective release of a molded epoxy part.

Claims 18-19. (canceled)

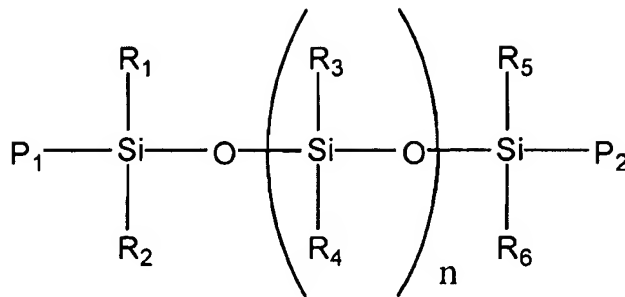
20. (original) A mold release agent according to claim 1, having a pH of 7-11.

21. (original) A mold release agent according to claim 1, having a viscosity of 10-10,000 cP at 25°C.

22. (original) A mold release agent according to claim 1, being effective to provide substantially no detrimental transfer to a molded composite part molded on a mold surface coated with said mold release agent.

23. (original) A mold release agent according to claim 1, said functional siloxane having the following structure:
 $\text{HO}(\text{CH}_3)_2\text{-Si-(O-Si(CH}_3)_2\text{-O-Si(CH}_3)_2)_x\text{-O-Si(CH}_3)_2\text{OH}$, where x is selected such that said functional siloxane has a molecular weight in the range of 4,000 - 100,000.

24. (original) A mold release agent according to claim 1, said functional siloxane having the following structure:



where R₁, R₂, R₃, R₄, R₅ and R₆ individually can be the same or different, each being selected from the group consisting of C₁₋₃ alkyl, vinyl, hydride, and alkoxy groups, where n is about 0 to about 100,000, and where P₁ and P₂ can be the same or different, each being selected from the group consisting of silanol, hydride, alkyl, vinyl, carbinol and carboxy groups.

Claims 25-37. (canceled)

38. (new) A mold release agent according to claim 1, said mold release agent being curable at room-temperature.

39. (new) A mold release agent according to claim 1, comprising the following composition in water:

0.04-2.99 weight percent silanol-functional siloxane;

0.018-4.98 weight percent alkoxy-functional crosslinker;

0.009-2 weight percent catalyst;

0.04-4.8 weight percent thickening agent; and

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0.1-2 weight percent base.